The goal of this homework is to help you become more confident with ordering heuristics terminology and algorithms by enticing you to review the lecture material and research it further for completeness and correctness.

1 General Principal

What is the general principal for

1. value ordering? (2 points)

2. variable ordering? (2 points)

2 Ordering Heuristics

Consider ordering heuristics for search below:

1. Min-conflict heuristic (value ordering).

2. The promise heuristic for value ordering.

3. The promise heuristic for variable ordering.

4. Minimal width ordering.

5. Maximal cardinality ordering.
For each of the above listed heuristics, answer the following questions:

1. State whether the heuristic is suitable to be used during search in a static, dynamic, or both fashion. (2 points)

2. Informally explain what the heuristic tries to achieve. (3 points)

3. Informally (or formally) describe how the heuristic is computed (i.e., describe the algorithm that implements this mechanism). (7 points)